BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of work: **Estimate for Improvements to drains and construction of culverts at Varadarajanagar cross roads in ward No 11(Kuvempunagara) in Vidyaranyapura Sub Division.**

011-17-000013		P-3165			Est Cost Rs.		2000000.00	
Description of item	Unit	No	L	B	D	Qty	Rate	Amount
KSRRB 300-1. **Earthwork excavation by manual means** in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 1.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 **(Page No141., I.No.19.1 of KPWD S.R 2015-16).**	Cum							
For Drain Varadarajnagara Cross Road		2	120.00	1.00	1.15	276.00		
Cds		2	6.00	1.80	1.20	25.92		
						301.92	192.79	**58208.00**
Basic Rate	77.00							
Add loading and unloading Charges **It No 17.1 KSRRB M 100-1**	68.00							
Average weight of earth 1.28 tonne / kg for 11.90 Km = 1.28 T X 11.90Km X 2.2 / km= 33.51	33.51							
	178.51							
Area Weightage @8%	14.28							
Total	**192.79**							
2 KSRB 4-1.3 : Providing and laying in position plain cement concrete of **mix 1:4:8 with OPC cement @ 180 kgs with 40mm** and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregares @ 0.57 cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2. **No. 12 / Item No. 4.3 / PWD SR 2015-16**								
For Drain Varadarajnagara Cross Road		2	120.00	1.00	0.15	36.00		
CDs		2	6.00	1.80	0.15	3.24		
						39.24	5070.60	**198970.00**
Basic Rate	4695.00							
Area Weightage @8%	375.60							
Total	**5070.60**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
3	Providing and laying cement concrete using 20mm and down size granite jelly of **ready mixed concrete (RMC)for R.C.C works** laid in 15cms thick layers and well compacted vibrating, curing, finishing with necessary cement mortar, form works and scaffoldings to withstand pumping of concrete, with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.) Ready mixed Cement concrete M-20 (1:1.5:3) for raft foundation, column footing, main and secondary beams. **Page No. 18 / Item No. 4.48 / PWD SR 2015-16**	Cum							
	For Drain Varadarajnagara Cross Road Bottom Concrete		2	120.00	1.00	0.15	36.00		
	CDs Bottom		2	6.00	1.50	0.15	2.70		
	Drain side wall		4	120.00	0.15	0.75	54.00		
	CD side wall		4	6.00	0.30	0.90	6.48		
							99.18	6332.04	**628012.00**
	Basic Rate	5863.00							
	Area Weightage @ 8%	469.04							
	Total	**6332.04**							
4	KSRB 4-6.4 : Providing and removing **centering, shuttering, strutting,** propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 Page No. 15 / Item No. 4.31 / PWD SR 2015-16	**sqm**							
	for Drain Side Wall		6	120.00		0.75	540.00		
	CDs		4x2	6.00		0.90	43.20		
							583.20	306.72	**178879.00**
	Basic Rate	284.00							
	Area Weightage @8%	22.72							
	Total	**306.72**							
5	KSRB 4.9.2 : Providing **T .M.T steel reinforcement** for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 for TMT Bars Fe500 **(Page No 17., I.No.4.46.2 of KPWD S.R 2015-16).**	**Tonne**							
				99.18	0.075	T/cum	**7.44**	59327.91	**441311.00**
	Basic Rate	54933.25							
	Area Weightage @8%	4394.66							
	Total	**59327.91**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
6	Providing **precast slab of 250mm thick** including cost of all materials, labour, curing,transportation,loading unloading, etc.,complete as per the direction of engineer in charge- Data rate	Sqm							
	culvert deck slab		2	6.00	1.50		18.00		
							18.00	5125.00	**92250.00**
7	Providing **precast slab of 100mm thick** including cost of all materials, labour, curing, transportation, loading unloading, etc., complete as per the direction of engineer in charge- Data rate	Sqm							
	RCC Drain Slab		2	120.00	0.90		216.00		
							216.00	1760.00	**380160.00**
	Sub Total								**1977790.00**
	Third Party Inspection Charges @ 1%								**19778.00**
	Add for unforseen and rounding off	L/S							**2432.00**
								Total	**2000000.00**
	Rupees Twenty Lakh(s) Only								

Certificate:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2015-16.
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 11

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidyaranyapura Sub Division

24/12

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

24/12

Administrative Approval
Accorded For 20.00 lakhRs.
Head of A/C P-3165
CER NO : 82 Dt:. 31/12/16

TA CE (YNK)

TECHNICAL SANCTION
Accorded For Rs. Twenty Lakhs only
Head of A/c P-3165
Div. Ref. No. 92/16-17 Date 31/12/16

AE

EE(BTP) 31/12